



PARKER MEDICAL, INC.

High Voltage X-Ray Imaging Components

High Voltage Cable Specification

HV CABLE TYPE	TYPICAL RATING KVDC	JACKET DIAMETER/ TYPE	MIN BEND RADIUS	INSULATION DIAMETER/ TYPE	NUMBER CON- DUCTORS	CONDUCTOR SIZE (AWG)	DC RESISTANCE OHMS/1000'	MAX CURRENT AMPERES (RMS)	MAX VOLTAGE BETWEEN CONDUCTORS	CAPACITANCE CORE TO SHIELD pF (±10%)	OUTER SHIELD RESISTANCE OHMS/1000'
SINGLE-CONDUCTOR											
H1025 B	100KVDC	.440" 11.2MM BLK PVC	2.50"	.365" 9.27MM HDPE	1	1 #16	4.50	15A	—	25/FT	80% COVERAGE
H1026 C	60KVDC	.530" 13.46MM BLK PVC	0.25"	.360" 9.14MM SILICONE	1	1#12	1.80	25A	—	65/FT	85% COVERAGE
H1027 D	50KVDC	.450" 11.43MM BLK SLEEVING	.750"	.360" 9.14MM SILICONE	1	1 #12	1.80	25A	—	65/FT	85% COVERAGE
H1191 J	40KVDC	.0300" ±.015" 7.62MM GRY PVC		.187" 4.75MM	1	1 #18	5.70	10A	—		80% COVERAGE
H1039 R	60KVDC	.520" 13.21MM GRY PVC	2.10"	.410" 10.41MM EPR	1	1 #12 WITH SEMI-CONDUCTIVE COVER	1.80	25A	—	47/FT	80% COVERAGE
H638 U	150KVDC	.625" 15.88MM BLK PVC	3.00	.480" 12.19MM HDPE	1	#12 WITH SEMI-CONDUCTIVE COVER	1.80	25A	—		85% COVERAGE
H1043 W	200KVDC	.805" 20.45MM BLK PVC	4.00	.765" 19.43MM HDPE	1	#12 WITH SEMI-CONDUCTIVE COVER	1.80	25A	—		85% COVERAGE
H1044 X	50KVDC	.470" ±.015" 11.94MM GRY PVC	2.00	.350" ±.010" 8.89MM EPR	1	1 #14	2.80	19A	—	49.6/FT 148/MTR	80% COVERAGE
H1048 RG220	200KVDC	1.12" 28.4MM BLK PVC		0.91" 23.1MM PE	1	0.260" DIA 1 #2 SOLID	0.156		—	31/FT	80% COVERAGE
THREE-CONDUCTOR											
H1024 A	75KVDC	.610" ±.015" 15.25MM GRY PVC	2.40"	.490" ±.010 12.45MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A EACH 17A TOGETHER	1000RMS 3000VDC	49.5/FT 162/MTR	2.2 80% COVERAGE
H1028 E LOW NOISE*	160KVDC	1.225" ±.025" 31.12MM BLK PVC	4.50"	.980" ±.020" 24.89MM EPR	3	2 INSULATED #16 2 UNINSULATED #18	4.50 3.60	15A EACH 17A TOGETHER	1000RMS 3000VDC	35/FT 115/MTR	80% COVERAGE
H1029 F LOW NOISE*	250KVDC	1.505" ±.025" 38.23MM BLK PVC	6.00"	1.28" ±.020" 32.51 EPR	3	2 INSULATED #14 1 UNINSULATED #12	2.80 1.80	19A 25A	1000RMS 3000VDC	31/F-1 101/MTR	80% COVERAGE
H1035 L LOW NOISE*	75KVDC	.650" ±.015" 16.5MM GRY PVC	2.75"	.510" ±.010" 12.95MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A 17A	1000RMS 3000VDC	47/FT 154/MTR	2.2 80% COVERAGE
H1036 M LOW NOISE*	100KVDC	.785" ±.015" 19.4MM GRY PVC	3.00"	.620" ±.010" 15.75MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A 17A	1000RMS 3000VDC	41/FT 131/MTR	2.6 80% COVERAGE
H1002 P GLOBAL LOW NOISE*	75KVDC	.635" ±.015" 16.13MM GRY PVC		.490" 12.44MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A EACH 17A TOGETHER	500RMS 1500DC	48/FT 157/MTR	2.0 95% COVERAGE
H1040 T	75KVDC	.650" ± 16.5MM DRK GRY PVC	1.80"		3	3 INSULATED #16	4.50	15A	4000VDC	47/F-1 154/MTR	COTTON MIXED WITH BRAID
H1045 Y LOW NOISE*	100KVDC	.785" ±.015" 19.94MM BLK W/YEL STRIPE	3.00"	.620" ±.010" 15.75MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A EACH 17A TOGETHER	1000RMS 3000VDC	41/FT 131/MTR	2.6 80% COVERAGE

Main Headquarters

137 New Milford Road East
Bridgewater, CT 06752 USA

Tel: 860-350-4304

Fax: 860-350-3432

Email: info@parkermed.com

www.parkermed.com

11-2002

HV CABLE TYPE	KV RATING	JACKET DIAMETER/ TYPE	MIN BEND RADIUS	INSULATION DIAMETER/ TYPE	NUMBER CON-DUCTORS	CONDUCTOR SIZE (AWG)	DC RESISTANCE OHMS/1000'	MAX CURRENT AMPERES (RMS)	MAX VOLTAGE BETWEEN CONDUCTORS	CAPACITANCE CORE TO SHIELD pF (±10%)	OUTER SHIELD RESISTANCE OHMS/1000'
FOUR-CONDUCTOR											
H1030 G GRID LOW NOISE*	100KVDC	.845" ±.015" 21.46MM GRY PVC	3.50"	.660" ±.010" 16.76MM EPR	4	2 INSULATED #15 3 UNINSULATED #18 1 #20 MYLAR/TAPE	3.60 3.60 24.12	17A EACH 17A TOGETHER	(13KVDC GRID LEAD TO #15 / #18)	49/FT 159/MTR GRID LEAD 70/FT	2.6 80% COVERAGE
H1031 H TRI-F/GRID LOW NOISE*	75KVDC	.715" ±.015" 18.16MM GRY PVC	2.90"	.560" ±.010" 14.22MM EPR	4	3 INSULATED #16 2 UNINSULATED #18 1 OKOZEL INSULATED	4.50 3.60	15A EACH 17A TOGETHER	(13KVDC OKOZEL LEAD TO #16/#18)	58/FT GRID LEAD 65/FT	80% COVERAGE
H1032 I TRI-F LOW NOISE*	75KVDC	.715" ±.015" 18.16MM GRY PVC	2.90"	.550" ±.010" 13.97MM EPR	4	3 INSULATED #16 2 UNINSULATED #18	4.50 3.60	15A EACH 17A TOGETHER		58/FT	80% COVERAGE
H1034 K TRI-F LOW NOISE*	100KVDC	.845" ±.015" 21.46MM GRY PVC	3.50	.660" ±.010" 16.76MM EPR	4	3 INSULATED #15 3 UNINSULATED #18	3.60 3.60	17A EACH 17A TOGETHER	1000RMS 3000VDC	49/FT 159/MTR	2.6 80% COVERAGE
H1037 N ELSCINT LOW NOISE*	100KV	.845" ±.015" 21.46MM GRY PVC	3.50	.660" ±.010" 16.76MM EPR	4	2 INSULATED #16 2 INSULATED #20	4.50 9.0	15A EACH 8A EACH	6.5KV (#20AWG TO #16)	49/FT 35/FT	80% COVERAGE
H1380 Q1*	160KV	1.025" 26.0MM GRY PVC	3.70"	0.835" 21.2MM	4	3 INSULATED #15 3 UNINSULATED #18	3.20			47/FT	95% COVERAGE
FIVE-CONDUCTOR											
H1042 V	75KVDC	.720" ±.015" 18.29MM GRY PVC		.580" 14.73MM EPR	5	3 INSULATED #15 2 INSULATED #20	3.60 9.00	17A EACH 8A EACH	1000RMS 3000VDC	58/FT	80% COVERAGE
SIX-CONDUCTOR											
H1105 Q2*	160KV	1.025" ±.025" 26MM GRY PVC	3.70"	.835" ±.015" 21.2MM EPR	6	3 INSULATED #15 2 INSULATED #18 1 UNINSULATED #18	3.51 5.70 5.70	17A 10A 10A	1000RMS 3000VDC	47/FT	95% COVERAGE
SEVEN-CONDUCTOR											
H1038 O	75KVDC	.550" ±.015" 13.97MM GRY PVC	2.50"	.410" 10.41MM EPDM	7	7 INSULATED #18	5.70	10A	1000VDC	46/FT	80% COVERAGE
SPECIAL CONSTRUCTIONS											
H1020 Triax	75KVDC	.725" ±.015" 18.42MM BLK PVC	3.0"	.490 ±.010" 12.45MM EPR	3	2 INSULATED #15 2 UNINSULATED #18	3.60 3.60	17A EACH 17A TOGETHER	1000RMS 3000VDC	49.5/FT	2.2 80% COVERAGE
	NOTE: CONSTRUCTION OF THE TYPE H1020 IS SIMILAR TO THE H1024 CABLE EXCEPT .610" GRY JACKET HAS BEEN REPLACED WITH 90% BRAID COVERAGE AND BLK PVC JACKET OVERLAY WITH AN .725" OD.										

* LONG-TERM LOW NOISE OPERATION
LOW NOISE <10 PC @220V A/C MIL OF
INSULATION TO 42KV MAXIMUM